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Advanced Photonic Sensors in Fluid Dynamics

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submissions:

closed (31 May 2022)

Message from the Guest Editors

Dear Colleagues,

With advancements in the field of photonics, we are now more capable than ever to conduct measurements of fluidic properties at a very high spatial and temporal resolution in a non-intrusive manner. This has led, in recent years, to the development of novel sensing methods and techniques employed in aerodynamics, microfluidics, and biological flows for the measurement of a range of parameters, such as pressure, temperature, oxygen concentration, and glucose level, etc.

The goal of this Special Issue is to bring together novel photonic-based fluidic measurement technologies developed for the biomedical sector, the aerospace industry (including wind tunnel testing), waste water treatment, air quality monitoring, and aquafarming. Specifically, this Special Issue will cover, but is not limited to, the following areas:

- Microfluidics;
- Biological flows;
- Aerodynamics;
- Automotive;
- Wind tunnel testing;
- Pressure and temperature measurement;
- Optical oxygen sensors.

For more information on the issue, please access the website at: <https://www.mdpi.com/si/99355>



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Special Issue



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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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